IAP6 Rec'd PCT/PTO 03 NOV 2006

TRANS	MITTA	L OF INFORMA (Under 37 CFF	Docket No. 17418				
In Re Application Of: Antonio Ferrante, et al.							
Applicatio	on No.	Filing Date	Group Art Unit	Confirmation No.			
10/588,	,094	July 28, 2006	Unassigned	23389	Unassigned	Unassigned	
Title: THERAPEUTIC AND CARRIER MOLECULES							
Address to: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450							
			37 CFR 1.97(b)				
1. The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.							
 The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of: 							
☐ the statement specified in 37 CFR 1.97(e);							
OR							
☐ the fee set forth in 37 CFR 1.17(p).							

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT Docket No. (Under 37 CFR 1.97(b) or 1.97(c)) 17418 Antonio Ferrante, et al. In Re Application of: Filing Date Customer No. Group Art Unit Confirmation No. Application No. Examiner 10/588,094 July 28, 2006 Unassigned 23389 Unassigned Unassigned Title: THERAPEUTIC AND CARRIER MOLECULES **Payment of Fee** (Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p)) A check in the amount of is attached. The Director is hereby authorized to charge and credit Deposit Account No. 19-1013/SSMP as described below. Charge the amount of Credit any overpayment. Charge any additional fee required. Payment by credit card. Form PTO-2038 is attached. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. Certificate of Transmission by Facsimile* Certificate of Mailing by First Class Mail I certify that this document and authorization to charge deposit I hereby certify that this correspondence is being deposited account is being facsimile transmitted to the United States with the United States Postal Service with sufficient postage Patent and Trademark Office (Fa as first class mail in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on October 30, 2006 (Date) Signature of Person Mailing Correspondence Signature Xiaochun Zhu Typed or Printed Name of Person Signing Certificate Typed or Printed Name of Person Mailing Certificate *This certificate may only be used if paying by deposit account. October 30, 2006 Dated: Xiaochun Zhu Registration No. 56,311 Scully, Scott, Murphy & Presser, P.C. 400 Garden City Plaza, Suite 300 Garden City, New York 11530 516-742-4343 CC:

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Antonio Ferrante, et al.

Examiner:

Unassigned

Serial No.:

P. O. Box 1450

10/588,094

Art Unit:

Unassigned

Filed:

July 28, 2006

Docket:

17418

For:

THERAPEUTIC AND

CARRIER MOLECULES

Dated:

October 30, 2006

Mail Stop PCT
Commissioner for Patents

Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R §§1.97 and 1.98, it is requested that the following references, which are also listed on the attached Form PTO-1449, be made of record in the above-identified case.

- 1. PCT International Publication No. WO 96/11908, published April 25, 1996;
- 2. PCT International Publication No. WO 96/13507, published May 9, 1996;
- 3. PCT International Publication No. WO 97/38688, published October 23, 1997;
- 4. PCT International Publication No. WO 01/21172 A1, published March 29, 2001;
- 5. PCT International Publication No. WO 01/21575 A1, published March 29, 2001;
- 6. PCT International Publication No. WO 90/08130, published July 26, 1990;

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: October 30, 2006

Xiaochun Zhu

- 7. PCT International Publication No. WO 02/094764 A1, published November 28, 2002;
- 8. PCT International Publication No. WO 03/007876 A2, published January 30, 2003;
- 9. PCT International Publication No. WO 03/006007 A1, published January 23, 2003;
- 10. Australian Patent Publication No. 200022459 A1, published October 19, 2000;
- 11. United States Patent No. 5,151,534, dated September 29, 1992 to Shroot et al.;
- 12. PCT International Publication No. WO 99/58122, published November 18, 1999;
- 13. PCT International Publication No. WO 99/58121, published November 18, 1999;
- 14. PCT International Publication No. WO 99/58123, published November 18, 1999;
- 15. PCT International Publication No. WO 02/43728 A1, published June 6, 2002;
- 16. PCT International Publication No. WO 97/03663, published February 6, 1997;
- 17. European Patent Publication No. 0 345 038, published December 6, 1989;
- 18. PCT International Publication No. WO 99/58120, published November 18, 1999;
- 19. Bjorndal B. et al., "Nuclear Import of Factors Involved in Signaling is Inhibited in C3H/10T1/2 Cells Treated With Tetradecylthioacetic Acid", *Journal of Lipid Research* 43:1630-1640 (2002);
- 20. PCT International Publication No. WO 01/68582 A1, published September 20, 2001;
- 21. Robinson B.S. et al., "Inhibition of Neutrophil Leukotriene B₄ Production by a Novel Synthetic N-3 Polyunsaturated Fatty Acid Analogue, \(\beta\)-Oxa 21:3n-3\(^1\)", The Journal of Immunology 171(9):4773-4779 (2003);

- 22. Costabile M. et al., "A Novel Long Chain Polyunsaturated Fatty Acid, \(\beta\)-Oxa 21:3*n*-3, Inhibits T Lymphocyte Proliferation, Cytokine Production, Delayed-Type Hypersensitivity, and Carrageenan-Induced Paw Reaction and Selectively Targets Intracellular Signals", *J. Immunol.* 167(7):3980-3987 (2001);
- 23. Ferrante A. et al., "Neutrophil Migration Inhibitory Properties of Polyunsaturated Fatty Acids. The Role of Fatty Acid Structure, Metabolism, and Possible Second Messenger Systems", *J. Clin. Invest.* 93:1063-1070 (1994);
- 24. Forman B.M. et al., "Hypolipidemic Drugs, Polyunsaturated Fatty Acids, and Eicosanoids are Ligands for Peroxisome Proliferator-Activated Receptors α and δ", *Proc. Natl. Acad. Sci. USA 94*:4312-4317 (1997);
- 25. Huang Z.H. et al., "n-6 and n-3 Polyunsaturated Fatty Acids Stimulate Translocation of Protein Kinase Cα, -β1, -β11 and -ε and Enhance Agonist-Induced NADPH Oxidase in Macrophages", *Biochem. J.* 325:553-557 (1997);
- 26. Novak T.E. et al., "NF-κB Inhibition by ω-3 Fatty Acids Modulates LPS-Stimulated Macrophage TNF-α Transcription", Am. J. Physiol. Lung Cell Mol. Physiol. 284:L84-L89 (2003);
- 27. Denys A. et al., "Eicosapentaenoic Acid and Docosahexaenoic Acid Modulate MAP Kinase (ERK1/ERK2) Signaling in Human T Cells", *Journal of Lipid Research* 42:2015-2020 (2001);
- 28. Narayanan B.A. et al., "Modulation of Inducible Nitric Oxide Synthase and Related Proinflammatory Genes by the Omega-3 Fatty Acid Docosahexaenoic Acid in Human Colon Cancer Cells", *Cancer Research* 63:972-979 (2003);
- 29. Zeyda M. et al., "Suppression of T Cell Signaling by Polyunsaturated Fatty Acids: Selectivity in Inhibition of Mitogen-Activated Protein Kinase and Nuclear Factor Activation", *The Journal of Immunology 170*:6033-6039 (2003);
- 30. Ferrante J.V. et al., "Altered Responses of Human Macrophages to Lipopolysaccharide by Hydroperoxy Eicosatetraenoic Acid, Hydroxy Eicosatetraenoic Acid, and Arachidonic Acid. Inhibition of Tumor Necrosis Factor Production", J. Clin. Invest. 99(6):1445-1452 (1997);
- 31. Aukrust P. et al., "Immunomodulating Effects of 3-Thia Fatty Acids in Activated Peripheral Blood Mononuclear Cells", *European Journal of Clinical Investigation* 33(5):426-433 (2003);

- 32. Huang S.M. et al., "Identification of a New Class of Molecules, the Arachidonyl Amino Acids, and Characterization of One Member that Inhibits Pain", *The Journal of Biological Chemistry* 276(46):42639-42644 (2001);
- 33. Prusakiewicz J.J. et al., "Selective Oxygenation of N-Arachidonylglycine by Cyclooxygenase-2", Biochemical and Biophysical Research Communications 296(3):612-617 (2002);
- 34. Devadas B. et al., "Substrate Specificity of Saccharomyces Cerevisiae Myristoyl-CoA:Protein N-Myristoyltransferase", The Journal of Biological Chemistry 267(11):7224-7239 (1992);
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- 36. Langner C.A. et al., "4-Oxatetradecanoic Acid is Fungicidal for *Cryptococcus Neoformans* and Inhibits Replication of Human Immunodeficiency Virus I", *The Journal of Biological Chemistry* 267(24):17159-17169 (1992); and
- 37. Kanao S. et al., "Syntheses of Aminoacid Derivatives and Their Biological Activities. I. Anti-Influenza Activity", *Yagukaku Zasshi 95(4)*:397-401 (1975).

The references were cited in an International Search Report dated April 15, 2005 received from the Australian Patent Office. Applicants are submitting copies of Reference nos.

1-10 and 12-37. In accordance with the waiver of 37 C.F.R. 1.98 (a)(2)(i) in effect as of June 30, 2003, Applicants are not required to submit a copy of the above cited U.S. Patent reference.

Applicants previously submitted a copy of the International Search Report on July 28, 2006. The relevance of the above-identified references has been described in the International Search Report.

Inasmuch as this Information Disclosure Statement is being submitted in accordance with the schedule set out in 37 C.F.R.§ 1.97(b), no statement or fee is required.

Respectfully submitted,

Xiaochun Zhu

Registration No. 56,311

Scully, Scott, Murphy & Presser, P.C. 400 Garden City Plaza, Suite 300 Garden City, New York 11530 (516) 742-4343

XZ:dg

Sheet $\underline{1}$ of $\underline{3}$

Form PTO-1449 U.S. DEPARTMENT OF COMMERCE (REV. 7-80) PATENT AND TRADEMARK OFFICE				Atty. Docket No. (Optional)		Application Number			
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)			17418		10/588,094				
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	W	O 02/094764 A1	11/28/02		PCT			1	
	W	O 03/007876 A2	1/30/03		PCT			√	
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Sheet <u>2</u> of <u>3</u>

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LIST OF PRIOR ART	17418	10/588,094				
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Robinson B.S. et al., "Inhibition of N Polyunsaturated Fatty Acid Analogue (2003)	eutrophil Leukotriene B ₄ Productio	n by a Novel Synthetic N-3				
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Sheet <u>3</u> of <u>3</u>

Form PTO-1449 U.S. DEPARTMENT OF COMMERCE (REV. 7-80) PATENT AND TRADEMARK OFFICE	Atty. Docket No. (Optional)	Application Number				
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